


**RINGO ANTI-TOBACCO**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** RINGO ANTI-TOBACCO  
**Other means of identification:**  
**UFI:** R9P0-G03J-9008-VRS8
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Air freshener  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
MB ELIX sp. z oo sp.k.  
ul. Skarżyńskiego 26  
54-530 Wrocław - Poland  
Phone: 0048 71 387 85 33 - Fax: 0048 71 722 29 68  
lab@elix.pl  
www.elixscent.com
- 1.4 Emergency telephone number:** 0048 71 387 85 33 (8.00-16.00)

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
Labelling of packages where the contents do not exceed 125 ml:  
**Warning**  
  
**Hazard statements:**  
H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.  
**Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.  
**Supplementary information:**  
Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, 3-p-cumenyl-2-methylpropionaldehyde, 4-tert-butylcyclohexyl acetate, alpha-methyl-1,3-benzodioxole-5-propionaldehyde, cinnamal, cis-4-(isopropyl)cyclohexanemethanol, linalool, piperonal.  
**UFI:** R9P0-G03J-9008-VRS8
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 Substance:**  
Non-applicable

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**RINGO ANTI-TOBACCO**





















**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

**3.2 Mixture:**

**Chemical description:** Mixture composed of chemical products

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:


Identification	Chemical name/Classification	Concentration
CAS: 100-79-8 EC: 202-888-7 Index: Non-applicable REACH: 01-2120066005-66-XXXX	<b>2,2-dimethyl-1,3-dioxolan-4-ylmethanol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	7,5 - <10 % 
CAS: 18479-58-8 EC: 242-362-4 Index: Non-applicable REACH: 01-2119457274-37-XXXX	<b>2,6-dimethyloct-7-en-2-ol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	2 - <3 % 
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42	<b>Linalool<sup>(1)</sup></b> ATP ATP10 Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	1 - <2 % 
CAS: 32210-23-4 EC: 250-954-9 Index: Non-applicable REACH: 01-2119976286-24	<b>4-tert-butylcyclohexyl acetate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	1 - <2 % 
CAS: 63500-71-0 EC: 405-040-6 Index: 603-101-00-3 REACH: 01-2119455547-30-XXXX	<b>Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)<sup>(1)</sup></b> ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	1 - <2 % 
CAS: 13828-37-0 EC: 237-539-8 Index: Non-applicable REACH: Non-applicable	<b>cis-4-(isopropyl)cyclohexanemethanol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	0,5 - <0,75 % 
CAS: 103-95-7 EC: 203-161-7 Index: Non-applicable REACH: 01-2119970582-32	<b>3-p-cumenyl-2-methylpropionaldehyde<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,5 - <0,75 % 
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	<b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran<sup>(1)</sup></b> ATP ATP01 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	0,25 - <0,5 % 
CAS: 54464-57-2 EC: 259-174-3 Index: Non-applicable REACH: 01-2119489989-04	<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	0,25 - <0,5 %  
CAS: 120-57-0 EC: 204-409-7 Index: Non-applicable REACH: 01-2119983608-21	<b>Piperonal<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	0,25 - <0,5 % 
CAS: 28219-61-6 EC: 248-908-8 Index: Non-applicable REACH: 01-2119529224-45	<b>2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319 - Warning	0,1 - <0,25 %  
CAS: 1205-17-0 EC: 214-881-6 Index: Non-applicable REACH: Non-applicable	<b>alpha-methyl-1,3-benzodioxole-5-propionaldehyde<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	0,1 - <0,25 %  
CAS: 127-51-5 EC: 204-846-3 Index: Non-applicable REACH: Non-applicable	<b>3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <0,25 %  
CAS: 108-05-4 EC: 203-545-4 Index: 607-023-00-0 REACH: 01-2119471301-50-XXXX	<b>vinyl acetate<sup>(2)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 3: H412; Carc. 2: H351; Flam. Liq. 2: H225; STOT SE 3: H335 - Danger	0,01 - <0,1 %   

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Substance with a Union workplace exposure limit

**RINGO ANTI-TOBACCO**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Chemical name/Classification		Concentration
CAS: 104-55-2 EC: 203-213-9 Index: Non-applicable REACH: 01-2119935242-45	<b>Cinnamal<sup>(1)</sup></b>	Self-classified	<b>0,01 - &lt;0,1 %</b>
	Regulation 1272/2008	Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning 	

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

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## RINGO ANTI-TOBACCO

### SECTION 5: FIREFIGHTING MEASURES (continued)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

##### For non-emergency personnel:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

##### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

##### A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

##### B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

##### C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

##### D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

#### 7.2 Conditions for safe storage, including any incompatibilities:

##### A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 35 °C

Maximum time: 36 Months

##### B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

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**RINGO ANTI-TOBACCO**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
	vinyl acetate CAS: 108-05-4 EC: 203-545-4	IOELV (8h)	5 ppm
IOELV (STEL)		10 ppm	35,2 mg/m <sup>3</sup>

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	20,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	73,5 mg/m <sup>3</sup>	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	24,58 mg/m <sup>3</sup>	Non-applicable
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	41,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	44,1 mg/m <sup>3</sup>	Non-applicable
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,83 mg/m <sup>3</sup>	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	36,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	13,5 mg/m <sup>3</sup>	Non-applicable
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,6 mg/m <sup>3</sup>	Non-applicable
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,17 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,2 mg/m <sup>3</sup>	Non-applicable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,375 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,22 mg/m <sup>3</sup>	Non-applicable
vinyl acetate CAS: 108-05-4 EC: 203-545-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
	Inhalation	35,2 mg/m <sup>3</sup>	35,2 mg/m <sup>3</sup>	17,6 mg/m <sup>3</sup>	17,6 mg/m <sup>3</sup>
Cinnamal CAS: 104-55-2 EC: 203-213-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,75 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,11 mg/m <sup>3</sup>	Non-applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	21,7 mg/m <sup>3</sup>	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,33 mg/m <sup>3</sup>	Non-applicable

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**RINGO ANTI-TOBACCO**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Non-applicable	Non-applicable	7,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	13 mg/m <sup>3</sup>	Non-applicable
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,45 mg/m <sup>3</sup>	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	22 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4 mg/m <sup>3</sup>	Non-applicable
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,3 mg/m <sup>3</sup>	Non-applicable
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	Oral	Non-applicable	Non-applicable	0,17 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,083 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,29 mg/m <sup>3</sup>	Non-applicable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	0,0355 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,0446 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,45 mg/m <sup>3</sup>	Non-applicable
Cinnamal CAS: 104-55-2 EC: 203-213-9	Oral	Non-applicable	Non-applicable	0,625 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,625 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,09 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification					
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS: 100-79-8 EC: 202-888-7	STP	10 mg/L	Fresh water	0,2 mg/L	
	Soil	2,5 mg/kg	Marine water	0,2 mg/L	
	Intermittent	0,09 mg/L	Sediment (Fresh water)	1,18316 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,1183 mg/kg	
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	STP	10 mg/L	Fresh water	0,0278 mg/L	
	Soil	0,103 mg/kg	Marine water	0,00278 mg/L	
	Intermittent	0,278 mg/L	Sediment (Fresh water)	0,594 mg/kg	
	Oral	0,111 g/kg	Sediment (Marine water)	0,059 mg/kg	
Linalool CAS: 78-70-6 EC: 201-134-4	STP	10 mg/L	Fresh water	0,2 mg/L	
	Soil	0,327 mg/kg	Marine water	0,02 mg/L	
	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg	
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg	
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 EC: 250-954-9	STP	12,2 mg/L	Fresh water	0,0053 mg/L	
	Soil	0,42 mg/kg	Marine water	0,00053 mg/L	
	Intermittent	0,053 mg/L	Sediment (Fresh water)	2,01 mg/kg	
	Oral	0,06667 g/kg	Sediment (Marine water)	0,21 mg/kg	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	STP	10 mg/L	Fresh water	0,094 mg/L	
	Soil	0,09 mg/kg	Marine water	0,009 mg/L	
	Intermittent	0,94 mg/L	Sediment (Fresh water)	0,412 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,041 mg/kg	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	STP	1 mg/L	Fresh water	0,00109 mg/L	
	Soil	0,025 mg/kg	Marine water	0,00011 mg/L	
	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,126 mg/kg	
	Oral	0,0333 g/kg	Sediment (Marine water)	0,013 mg/kg	

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**RINGO ANTI-TOBACCO**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	STP	1 mg/L	Fresh water	0,0068 mg/L
	Soil	1,5 mg/kg	Marine water	0,00044 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
Piperonal CAS: 120-57-0 EC: 204-409-7	STP	10 mg/L	Fresh water	0,0025 mg/L
	Soil	0,00084 mg/kg	Marine water	0,00025 mg/L
	Intermittent	0,025 mg/L	Sediment (Fresh water)	0,0119 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0012 mg/kg
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	STP	10 mg/L	Fresh water	0,005 mg/L
	Soil	0,008 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,053 mg/L	Sediment (Fresh water)	0,057 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,006 mg/kg
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	STP	10 mg/L	Fresh water	0,00143 mg/L
	Soil	0,0878 mg/kg	Marine water	0,000143 mg/L
	Intermittent	0,0143 mg/L	Sediment (Fresh water)	0,443 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0443 mg/kg
vinyl acetate CAS: 108-05-4 EC: 203-545-4	STP	6 mg/L	Fresh water	0,016 mg/L
	Soil	0,004 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,126 mg/L	Sediment (Fresh water)	0,067 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,007 mg/kg
Cinnamal CAS: 104-55-2 EC: 203-213-9	STP	7,1 mg/L	Fresh water	0,008 mg/L
	Soil	0,0156 mg/kg	Marine water	0,0008 mg/L
	Intermittent	0,0321 mg/L	Sediment (Fresh water)	0,101 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0101 mg/kg

**8.2 Exposure controls:**



**A.- Individual protection measures, such as personal protective equipment**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**



The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

**C.- Specific protection for the hands**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 120 min, Thickness: 0.2 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Body protection**



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**RINGO ANTI-TOBACCO**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C: Solid  
Appearance: Compact  
Colour:  Grey  
Odour: Pleasant  
Odour threshold: Non-applicable \*

**Volatility:**

Boiling point at atmospheric pressure: Non-applicable \*  
Vapour pressure at 20 °C: Non-applicable \*  
Vapour pressure at 50 °C: Non-applicable \*  
Evaporation rate at 20 °C: Non-applicable \*

**Product description:**

Density at 20 °C: 1107,7 kg/m<sup>3</sup>  
Relative density at 20 °C: 1,108  
Dynamic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 40 °C: >20,5 mm<sup>2</sup>/s  
Concentration: Non-applicable \*  
pH: Non-applicable \*  
Vapour density at 20 °C: Non-applicable \*  
Partition coefficient n-octanol/water 20 °C: Non-applicable \*  
Solubility in water at 20 °C: Non-applicable \*  
Solubility properties: Non-applicable \*  
Decomposition temperature: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**RINGO ANTI-TOBACCO**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Melting point/freezing point: Non-applicable \*

**Flammability:**

Flash Point: Non-applicable

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 192 °C

Lower flammability limit: Non-applicable \*

Upper flammability limit: Non-applicable \*

**Explosive (Solid):**

Lower explosive limit: Non-applicable \*

Upper explosive limit: Non-applicable \*

**Particle characteristics:**

Median equivalent diameter: Non-applicable \*

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Non-applicable \*

Oxidising properties: Non-applicable \*

Corrosive to metals: Non-applicable \*

Heat of combustion: Non-applicable \*

Aerosols-total percentage (by mass) of flammable components: Non-applicable \*

**Other safety characteristics:**

Surface tension at 20 °C: Non-applicable \*

Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

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**RINGO ANTI-TOBACCO**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.  
IARC: Eugenol (3); vinyl acetate (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Linalool	3000 mg/kg		Rat
CAS: 78-70-6		5610 mg/kg	Rabbit
EC: 201-134-4		Non-applicable	
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	LD50 oral	7000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

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**RINGO ANTI-TOBACCO**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
	Route	Dose	
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	LD50 oral	3600 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 EC: 250-954-9	LD50 oral	3370 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LD50 oral	3810 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Piperonal CAS: 120-57-0 EC: 204-409-7	LD50 oral	2700 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	LD50 oral	3550 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
vinyl acetate CAS: 108-05-4 EC: 203-545-4	LD50 oral	2920 mg/kg	Rat
	LD50 dermal	2340 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Cinnamal CAS: 104-55-2 EC: 203-213-9	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	Non-applicable	

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Non-applicable

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

**Acute toxicity:**

Identification	Concentration		Species	Genus
	Route	Dose		
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS: 100-79-8 EC: 202-888-7	LC50	16700 mg/L (96 h)	Pimephales promelas	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	LC50	Non-applicable		
	EC50	320 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LC50	1,092 mg/L (96 h)	N/A	Fish
	EC50	1,4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3,8 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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## RINGO ANTI-TOBACCO

### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	LC50	0,95 mg/L (96 h)	Oryzias latipes	Fish
	EC50	0,194 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS: 54464-57-2 EC: 259-174-3	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	LC50	1,1 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	0,63 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2,5 mg/L (96 h)	Selenastrum capricornutum	Algae
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
vinyl acetate CAS: 108-05-4 EC: 203-545-4	LC50	31,1 mg/L (96 h)	Lebistes reticulatus	Fish
	EC50	12,6 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	12,7 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

#### Chronic toxicity:

Identification	Concentration		Species	Genus
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS: 100-79-8 EC: 202-888-7	NOEC	Non-applicable		
	NOEC	10 mg/L	Daphnia magna	Crustacean
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	NOEC	Non-applicable		
	NOEC	9,5 mg/L	Daphnia magna	Crustacean
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	NOEC	Non-applicable		
	NOEC	0,71 mg/L	Daphnia magna	Crustacean
vinyl acetate CAS: 108-05-4 EC: 203-545-4	NOEC	0,551 mg/L	Pimephales promelas	Fish
	NOEC	Non-applicable		
Cinnamal CAS: 104-55-2 EC: 203-213-9	NOEC	15,159 mg/L	N/A	Fish
	NOEC	Non-applicable		

#### 12.2 Persistence and degradability:

##### Substance-specific information:

Identification	Degradability		Biodegradability	
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	72 %
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	10 %
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	65,5 %
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	65 %

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**RINGO ANTI-TOBACCO**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	BOD5	Non-applicable	Concentration	4 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	42,51 %
vinyl acetate CAS: 108-05-4 EC: 203-545-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	98 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS: 100-79-8 EC: 202-888-7	BCF	1
	Pow Log	
	Potential	Low
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BCF	102
	Pow Log	3.05
	Potential	High
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	BCF	65
	Pow Log	4.4
	Potential	Moderate
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	BCF	
	Pow Log	2.4
	Potential	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	BCF	
	Pow Log	3.49
	Potential	
vinyl acetate CAS: 108-05-4 EC: 203-545-4	BCF	3
	Pow Log	0.73
	Potential	Low
Cinnamal CAS: 104-55-2 EC: 203-213-9	BCF	8
	Pow Log	1.9
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Koc	42	Henry	1,71E-3 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	Koc	870	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
alpha-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0 EC: 214-881-6	Koc	71	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Koc	3061.96	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

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**RINGO ANTI-TOBACCO**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Absorption/desorption		Volatility	
vinyl acetate CAS: 108-05-4 EC: 203-545-4	Koc	24	Henry	56,1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,399E-2 N/m (25 °C)	Moist soil	Yes
Cinnamal CAS: 104-55-2 EC: 203-213-9	Koc	37	Henry	3,546E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
07 01 04*	other organic solvents, washing liquids and mother liquors	Dangerous

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Cinnamal (Product-type 2)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

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## RINGO ANTI-TOBACCO

### SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H312 - Harmful in contact with skin.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Carc. 2: H351 - Suspected of causing cancer.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

**Classification procedure:**

Eye Irrit. 2: Calculation method

Skin Sens. 1B: Calculation method

Aquatic Chronic 3: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

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**RINGO ANTI-TOBACCO**

**SECTION 16: OTHER INFORMATION (continued)**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -